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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/982,616	10/17/2001		Frances E. Lund	AP33438 068443.0106	8224
21003	7590	05/17/2004		EXAM	INER
BAKER & 1	BOTTS		BELYAVSKYI, MICHAIL A		
30 ROCKEF				ART UNIT	PAPER NUMBER
NEW YORK, NY 10112				1644	

DATE MAILED: 05/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
_	09/982,616	LUND ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michail A Belyavskyi	1644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 1) Responsive to communication(s) filed on 15 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) 1-17,20-23 and 25-34 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 18,19 and 24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and accomposed accomposed and accomposed accomposed accomposed and accomposed accomposed and accomposed accompos	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

1. Claims 1-34 are pending.

Applicant's election with traverse of group XIII, claims 18,19 and 24 in response to restiction Requirement, filed 03/15/04 is acknowledged. Applicant traverse the Restriction Requirement on the grounds that claims of Groups VIII and XIII are conceptually linked and the search of Groups VIII and XIII together would not constitute a serious search burden on the examiner. This is not found persuasive because the MPEP 803 (August 2001) states that "For purposes of the initial requirement, a serious burden on the examiner may be prima facie shown if the examiner shows by appropriate explanation either separate classification, separate status in the art, or a different field of search". The Restriction Requirement enunciated in the previous Office Action meets this criteria and therefore establishes that serious burden is placed on the examiner by the examination of more than one Group. The Inventions are distinct for reasons elaborated in paragraphs 3-5 of the previous Office Action and above.

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-17, 20-23 and 25-34 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b) as being drawn to nonelected inventions.

Claims 18, 19 and 24 read on a method for identifying a compound that inhibits CD38 enzyme activity, wherein CD38 mediated cell migration is measured under consideration in the instant application.

- 2. The specification is objected to under 37 CFR 1.821(d) for failing to disclose SEQ ID NOS, for the nucleic acid sequence disclosed on page 73, paragraph 0151.
- 3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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4. The following is a quotation of the second paragraph of 35 U.S.C. 112.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 19 and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 19 and 24 are indefinite and ambiguous in being dependent upon non-elected claim 17.

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 18 and 24 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods for identifying a compound that inhibits CD38 enzyme activity comprising (i) contacting a cell expressing CD38 and chemoattractant receptors with a test compound in the presence of a chemoattractant and substrate and measuring the level of CD38 activity; (ii) in a separate experiment, contacting a cell expressing CD38 and chemoattractant receptors with a chemoattractant and substrate and measuring the level of CD38 activity, where the conditions are essentially the same as in part (i) and then (iii) comparing the level of CD38 activity measured in part (i) with the level of CD38 activity in part (ii), wherein a decrease level of CD38 activity in the presence of the test compound indicates that the test compound is a CD38 inhibitor does not reasonably provide enablement for methods for identifying a compound that inhibits CD38 enzyme activity comprising (i) contacting a cell expressing only CD38 with a test compound in the presence of a chemoattractant and substrate and measuring the level of CD38 activity; (ii) in a separate experiment, contacting a cell expressing only CD38 with a substrate and measuring the level of CD38 activity, where the conditions are essentially the same as in part (i) and then (iii) comparing the level of CD38 activity measured in part (i) with the level of CD38 activity in part (ii), wherein a decrease level of CD38 activity in the presence of the test compound indicates that the test compound is a CD38 inhibitor

The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The specification does not enable one of skill in the art to practice the invention as claimed without undue experimentation.

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The Specification disclosed that the invention is based on the discovery that CD38 ADP-ribosyl cyclase activity critically important in regulating neutrophil chemotaxis both in vivo and in vitro (see overlapping pages 14-15 in particular). The Specification also disclosed that in the claimed method for identifying a compound that inhibits CD38 enzyme activity, wherein CD38 mediated cell migration is measured it is essential that chemoattractants are included in steps (i) and (ii) (see page 37, paragraph 0083 in particular). Moreover, in Examples, disclosed in the specification on pages 57, 63 and 68 chemoattractants were included in both steps (i) and (ii). If the presence of chemoattractants is essential for methods for identifying a compound that inhibits CD38 enzyme activity wherein CD38 mediated cell migration is measured, than cells that expressing CD38 should also expresses a chemoattractant receptor. Based on the disclosure of the instant Specification and provided examples one skilled in the art would immediately understand that only cells expressing both CD38 and chemoattractant receptors are enabled to use in a methods for identifying a compound that inhibits CD38 enzyme activity, wherein CD38 mediated cell migration is measured, as claimed in claims 18 and 24.

- 8. No claim is allowed.
- 9. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. For example on page 16, paragraph 0035, the ATCC Deposit Number is missing. Applicant's cooperation is requested in correcting any errors of which Applicant may become aware in the specification.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571/272-0841.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michail Belyavskyi, Ph.D. Patent Examiner Technology Center 1600 May 3, 2004

SUPERVISORY PATENT EXAMINER
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